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# INTRODUCTION
*to the* **BrakeMate**

Congratulations on the purchase of your BrakeMate brake flush machine!

The BrakeMate is a fully automatic brake-flushing machine that can service all 4 wheels in under 9 minutes.

Brake service is now more profitable, since we have eliminated the need for a second technician when performing a brake bleeding service.

The BrakeMate provides the shop with the ability to flush and pressure test a brake system faster and easier than ever before with a combination of automation, speed and effectiveness. The Brakemate also follows the OE recommended flushing sequence.

***Please take time to read through this manual to familiarize yourself with the BrakeMate before performing your first brake flush.***

# IMPORTANT SAFETY NOTICE

**For your safety, read this manual thoroughly before operating this machine. Your BrakeMate unit is intended for use by properly trained, skilled professional automotive technicians. The safety messages presented below and throughout this user's manual are reminders to the operator to exercise care when using this unit. Before using your BrakeMate unit, always refer to and follow the safety messages and applicable service procedures provided by the manufacturer of the vehicle being serviced.**

## • Read All Safety Instructions

**Read, understand and follow all safety messages and instructions in this manual. Safety messages in this section of the manual contain a signal word with a three-part message and, in some instances, an icon.**

## • Signal Words

**The signal word indicates the level of the hazard in a situation:**

### ⚠ DANGER

***Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury to the operator or to bystanders.***

### ⚠ WARNING

***Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury to the operator or to bystanders.***

### ⚠ CAUTION

***Indicates a potentially hazardous situation which, if not avoided, may result in moderate or minor injury to the operator or to bystanders.***

### IMPORTANT

***Indicates a situation which, if not avoided, may result in damage to the machine, or the vehicle being serviced.***

## • Safety Messages

**Safety messages in this section contain three different type styles:**

- Normal type states the hazard.
- **Bold type** states how to avoid the hazard.
- *Italic type* states the possible consequences of not avoiding the hazard.

## • Safety Symbols

A safety symbol, when present, gives a graphical description of the potential hazard, and how to avoid the hazard:

**Risk of Fire**

**Read Instructions Before Use**

**Risk of Explosion**

**Mandatory Eye Protection**

**Risk of Entanglement**

**Mandatory Protective Gloves**

**Dangerous Fumes**

**Mandatory Protective Clothing**

**Do Not Pull or Move**

**Risk of Burns**

# IMPORTANT SAFETY INSTRUCTIONS

## ⚠ DANGER

Engine exhaust contains toxic gases.
**• Vent vehicle's exhaust away from work area.**
**• Do not breathe exhaust.**
*Exhaust gases will cause injury or death.*

## ⚠ WARNING

Improper use and operation.
**• Read, understand and follow all safety messages and operational procedures in this manual before operating this machine.**
**• This equipment should be operated only by qualified personnel.**
**• Use this equipment only as described in this manual.**
*Improper use and operation of this product can result in injury.*

## ⚠ WARNING

Engine systems can malfunction expelling fuel, oil vapors, hot steam, hot toxic exhaust gases and other flying particles.
**• Wear safety goggles and protective clothing, user and bystander. Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses.**
**• Do not position head directly over or in front of carburetor or throttle body. Engine backfire can occur when air cleaner is out of normal position.**
**• Make sure gauge reads zero before connecting or disconnecting hose connections to adapters.**
**• Make sure cooling system pressure has been relieved before connecting or disconnecting hose connections and adapters.**
**• Keep a dry chemical (Class B) fire extinguisher rated for gasoline, chemical & electric fires in the work area.**
*Fire, explosion, or flying particles may cause serious injury.*

## ⚠ WARNING

Risk of expelling pressurized fluids.
**• Wear safety goggles and protective clothing, user and bystander.**

**• Engine systems can malfunction, expelling fuel, oil vapors, hot steam, hot toxic exhaust gases and other debris.**
**• Always unplug the machine from its power source when not in use.**
**• Keep the service hoses away from hot or moving engine parts. Hoses can split or burst causing fluid to be expelled.**
**• Avoid contact with brake fluid.**
**• Treatment methods are as follows:**
**Eyes: Flush eyes with plenty of water.**
**Skin: Wash with soap and water.**
**Inhalation: Move to uncontaminated area.**
**Ingestion: If large amount, get medical attention.**
**If any irritation persists, get medical attention.**
**• Dispose of used fluid according to environmental laws and regulations.**
*Fuel, oil vapors, hot steam, hot toxic exhaust gases, pressurized fluid, and other debris can cause serious injury.*

## ⚠ WARNING

Risk of unexpected vehicle movement.
**• Block drive wheels before starting vehicle's engine to begin an exchange.**
**• Unless instructed otherwise, set parking brake and put gear selector in park.**
**• Do not leave a running vehicle unattended.**
**• If vehicle has an automatic parking brake release, disconnect release mechanism for testing and reconnect when testing is completed.**
*A moving vehicle can cause injury.*

## ⚠ WARNING

Risk of entanglement. Engine has moving parts.
**• Do not place tools on fenders or other places in engine compartment.**
**• Keep yourself, clothing, battery cables and service hoses clear of moving parts such as fan blades, belts, pulleys, hood and doors.**
**• Barriers are recommended to help identify danger zones in test area.**
**• Prevent personnel from walking through immediate test area.**
*Contact with moving parts can cause injury.*

## ⚠ WARNING

Risk of fire or explosion.
**• Do not operate in the vicinity of open containers of flammable liquids such as gasoline.**
**• Keep hoses and jumper cables away from heat sources and sharp edges.**
**• Do not operate equipment with damaged cords or hoses until they have been examined by a qualified serviceman.**
*Fire or explosion can cause injury.*

## ⚠ WARNING

Risk of fire or explosion. Gases produced by a battery are highly explosive.
**• Wear safety goggles and protective clothing, user and bystander.**
**• This machine is equipped to operate on 12-volt DC power only. A power source greater than this can result in serious injury to the user as well as damage to the machine.**
**• Do not smoke, place metal tools on battery or allow a spark or flame in vicinity of battery.**
**• Clean battery terminals before hooking the machine's battery clips to them. During cleaning, keep airborne corrosion from eyes, nose and mouth.**
**• Be sure both battery cables are tightly connected to the battery terminals as instructed before proceeding with a fluid exchange.**
**• Never remove battery cables from the battery terminals while the machine is operating.**
*Battery explosion can cause injury.*

## ⚠ WARNING

Risk of burns.
**• Wear gloves when handling hot engine components.**
**• Do not touch hot exhaust systems, manifolds, engines, radiators, etc.**
*Hot engine parts may cause injury.*

## ⚠ WARNING

Battery acid is a highly corrosive sulfuric acid.
**• Wear safety goggles and protective gloves, user and bystander.**
**• Have plenty of fresh water and soap nearby. If battery acid contacts skin, clothing, or eyes, flush exposed area with soap and water for 10 minutes.**
**• While cleaning battery's terminals, keep airborne corrosion from eyes, nose and mouth.**
**• Do not touch eyes while working near battery.**
*Battery acid can burn eyes and skin.*

## ⚠ WARNING

Risk of burns.
**• Wear gloves when working near hot engine components.**
**• Do not touch hot exhaust systems, manifolds, engines, radiators, etc.**
**• The fluid coming from the vehicle along with some of the machine's components that the fluid comes into direct contact with (i.e. hoses and fittings) may reach temperatures uncomfortable to the touch. Exercise caution in avoiding contact with these items.**
*Hot components can cause injury or discomfort.*

## ⚠ CAUTION

Risk of injury.

**• This equipment should be operated by qualified personnel only.**
**• Use this equipment only as described in this manual.**
**• Always unplug the machine from its power source when not in use.**
**• Loop the power cord loosely in its proper location when machine is not in use.**
**• Do not operate equipment with a damaged battery cables or hoses, or if the equipment has been dropped or damaged, until it has been examined by a qualified service representative.**
**• Care should be taken to arrange the battery cables and service hoses so that they will not be tripped over or pulled.**
**• Never pull on the power cables or service hoses to transport the machine. Damage may occur to these components, or machine may tip over.**
**• Keep area of operation clear of unnecessary tools and equipment. Utilize recessed tool storage areas on the top of the machine.**
**• Never leave the machine running unattended.**
**• The BrakeMate is not designed for any other purpose than the servicing of automotive brake systems.**
*Operation of this machine by anyone other than qualified personnel may result in injury.*

## ⚠ CAUTION

Misdiagnosis may lead to incorrect or improper repair and/or adjustment.

**• Do not rely on erratic, questionable, or obviously erroneous test information or results. If test information or results are erratic, questionable, or obviously erroneous, make sure that all connections and data entry information are correct and that the test procedure was performed correctly. If test information or results are still suspicious, do not use them for diagnosis.**
*Improper repair and/or adjustment may cause vehicle or equipment damage or unsafe operation.*

## IMPORTANT

Risk of equipment damage.

**• Connect battery cables to a 12-volt power source only (i.e. vehicle's battery).**
**• Servicing, transporting, or storing this machine in an attitude other than the normal operating position can result in fluid spillage and/or component damage.**
**• Never pull on the power cables or service hoses to transport the unit. Damage may occur to these components, or machine may tip over. Always use the handle to move.**
**• Periodically clean the machine by wiping down with a clean, soft, dry cloth.**
*Improper operation of equipment may result in damage to machine or components.*

**SAVE AND FOLLOW THESE INSTRUCTIONS!**

# DIMENSIONS & TECHNICAL SPECIFICATIONS

## DIMENSIONS:

39" Tall
17" Wide
31" Deep

**Service Hose:**
15’ outside of machine

**Wheels:**
5” locking casters (front)
5” casters (back)

**Fluid Tanks:**
7-Quart New Fluid Tanks
20-Quart Waste Fluid Tank

**Weight:**
70 lbs

## TECHNICAL SPECIFICATIONS:

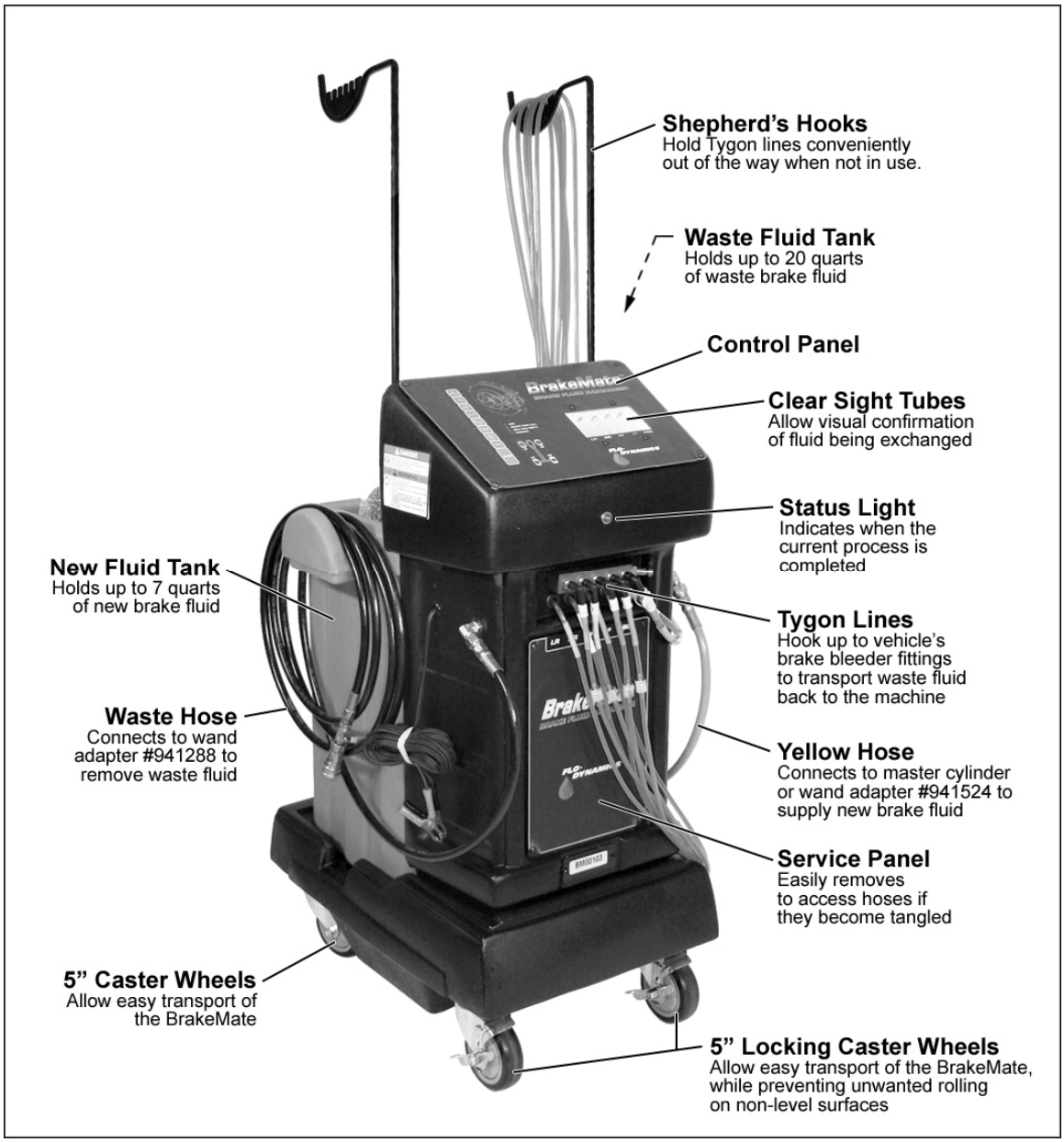
**Power:**
12-Volt DC from vehicle battery

**Operating Temperature:**
60º to 110ºF (15º to 43ºC)

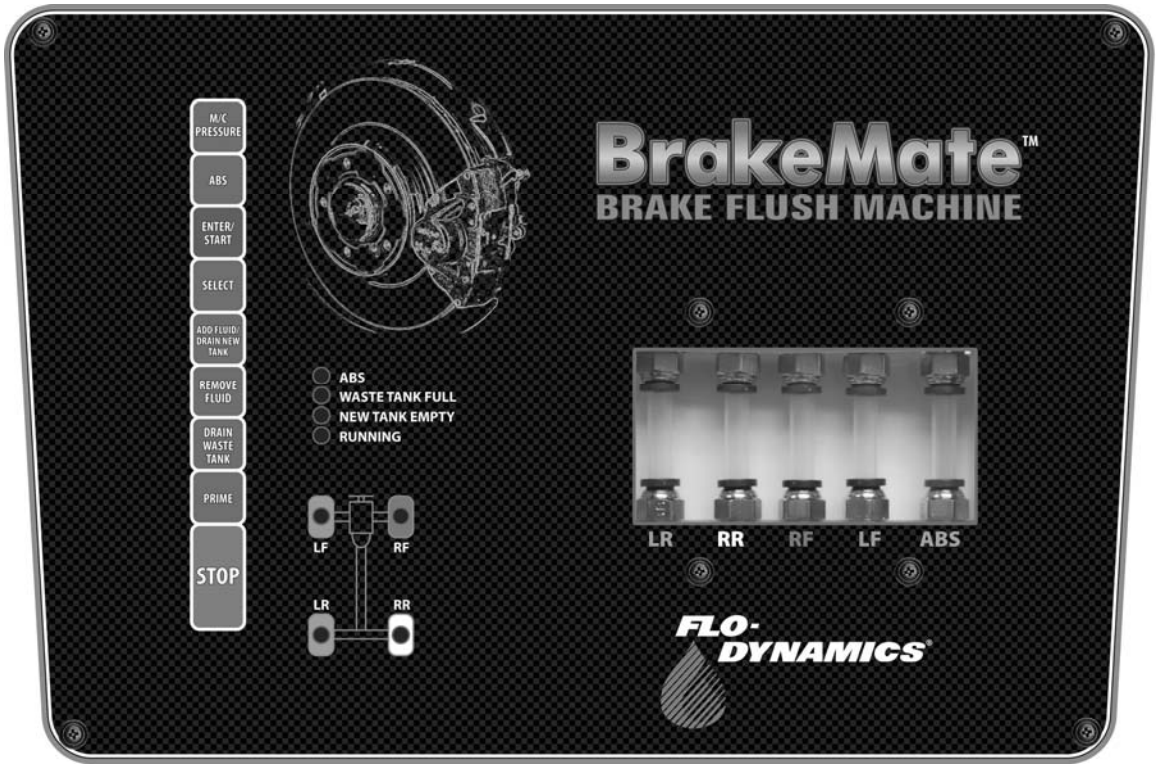
# FEATURES

- Durable roto-cast polyethylene body and tanks prevent vehicle damage
- Ergonomically correct working height
- 5” caster wheels allow easy maneuverability
- Clear sight tubes allow visual confirmation of new and waste fluid movement
- Easy access service panel

# MACHINE OVERVIEW


Shepherd's Hooks
Hold Tygon lines conveniently out of the way when not in use.
Waste Fluid Tank
Holds up to 20 quarts of waste brake fluid
Control Panel
Clear Sight Tubes
Allow visual confirmation of fluid being exchanged
Status Light
Indicates when the current process is completed
New Fluid Tank
Holds up to 7 quarts of new brake fluid
Tygon Lines
Hook up to vehicle's brake bleeder fittings to transport waste fluid back to the machine
Waste Hose
Connects to wand adapter #941288 to remove waste fluid
Yellow Hose
Connects to master cylinder or wand adapter #941524 to supply new brake fluid
Service Panel
Easily removes to access hoses if they become tangled
5" Caster Wheels
Allow easy transport of the BrakeMate
5" Locking Caster Wheels
Allow easy transport of the BrakeMate, while preventing unwanted rolling on non-level surfaces

## CONTROL PANEL OVERVIEW




## BUTTONS

| Button: | Function: |
|---|---|
| M/C PRESSURE | Pressurizes the master cylinder. |
| ABS | Toggles ABS function on and off. |
| ENTER/ START | Enter sequence wheel choice/start exchange. |
| SELECT | Selects wheel sequence for exchange. |
| ADD FLUID/ DRAIN NEW TANK | Pumps new fluid out of service hose. |
| REMOVE FLUID | 1 Press- Pulls fluid through ABS line.<br>Press and Hold - Pulls fluid through all 5 lines. |
| DRAIN WASTE TANK | Drains waste tank through service. |
| PRIME | Purges air out of service hose after machine is completely emptied of fluid. |
| STOP | Stops operations. |

## LED Lights

| Light: | Indication: |
| --- | --- |
| ABS | ABS mode is turned on. |
| WASTE TANK FULL | The waste fluid tank needs to be drained. |
| NEW TANK EMPTY | There is no more new fluid in the machine. |
| RUNNING | The brake flush is in progress. |

# OPERATING PROCEDURES

***NOTE:*** *If machine will not prime or drain, remove service panel and locate solenoid valve (labeled #1). Loosen hose fitting until a small amount of fluid drips out. Tighten and reattempt prime or drain.*

## MACHINE SETUP:

1. Fill New Fluid Tank with fresh brake fluid.
2. Connect the machine's battery cables to the vehicle's battery.
3. When the machine powers up you will notice the light on the front of the machine always stays lit telling you you're connected to power.
4. With all hoses on resting ports press the "PRIME" button.
5. Let machine run until you see fluid in the yellow Tygon lines.
6. Press "STOP" button.
7. Close ball-valve on service hose.
8. Hold "REMOVE FLUID" button down until all lights come on.
   *This will relieve pressure on the red manifold after priming.*

## DRAIN THE MASTER CYLINDER:

1. Remove ABS yellow Tygon line from holder and attach suction hose.
2. Remove the master cylinder cover and insert suction hose, then press the "REMOVE FLUID" button on the control panel.
   **NOTE: Leave a small amount of fluid in the bottom of the reservoir to make sure no air is introduced into the system.**
3. Press the "STOP" button when finished removing fluid.

## CONNECT TO THE MASTER CYLINDER:

1. Find and attach correct master cylinder adapter from adapter kit.
2. Attach yellow hose to master cylinder adapter and make sure the ball valve is in the open position.
3. Press the "M/C PRESSURE" button and verify that there are no leaks around the master cylinder cap. This button will pressurize the brake system so you can safely open the bleeder screws preventing air from entering the bleeder.
   **NOTE: Make sure the pressure hose is not putting any torque on the master cylinder adapter, which may cause leakage.**

## CONNECT TO THE BLEEDER VALVES:

1. Raise the vehicle.
2. Verify that all bleeder screws can be opened before attaching Tygon lines.
3. Attach Tygon lines to respective bleeder fittings.
4. Open bleeder screws about 1/4 turn until fluid begins to flow into the yellow lines.
   **NOTE: Make sure the bleeder stays open after you remove the wrench.**
5. If desired and the vehicle is equipped, the ABS line can be connected to the bleeder screw on the ABS unit in the engine bay and the ABS function can be toggled on in order to flush the ABS unit (this step is not required to perform a flush).

## BEGIN THE FLUSHING PROCESS:

1. The lights on the board depicting the wheels of the car will flash from one to the next when no sequence is selected.
2. Select a sequence by touching the “Select” button until the wheel you want to service first is illuminated; then touch the “Enter/Start” button.
3. Repeat until all wheels have been selected.
4. Touch the “Enter/Start” button again after all wheels have been selected to start the flush.

## DISCONNECT:

1. Close all bleeder valves on vehicle.
2. Return to machine and hold “Remove Fluid” button down until vacuum pump begins to run and all four wheel lights illuminate on control panel.
3. Remove all yellow Tygon lines from bleeder fittings
4. Lower the vehicle.
5. Close ball valve on pressure line and carefully remove from adapter using rag.
6. Remove master cylinder adapter and verify fluid level in reservoir.

## ADJUST FLUID LEVEL:

**TOP OFF:**

1. Connect open end hose to yellow service hose and press “ADD FLUID” button.
2. Slowly open ball valve until fluid reaches the correct level.
3. Replace the master cylinder cover.

**REMOVE FLUID:**

1. Remove ABS line from holder and attach suction hose.
2. Remove the master cylinder cover and insert suction hose, then press the “REMOVE FLUID” button on the control panel.
3. Press the “STOP” button when finished removing fluid.
4. Replace the master cylinder cover.

## TEST:

1. Start vehicle and check brake pedal to ensure solid feeling.

## DRAIN THE WASTE FLUID TANK:

1. Connect the machine’s battery cables to a 12V power source.
2. Connect open-end hose to black service hose and insert into appropriate disposal container.
3. Open the ball valve.
4. Press “DRAIN WASTE TANK” button on the control panel.

## WARNING!

**Brake fluid is highly corrosive, and will damage surfaces if not cleaned up promptly. Always check for brake fluid under the machine before storing, especially under the back of the machine where new fluid is filled. Any spills should be cleaned up immediately.**

# Brake Bleeder Adapter Application Chart

| | | Flo Part # | |
|---|---|---|---|
| **BMW** | All | 941592W | BA05 |
| **CADILLAC** | 32V Northstar 1996- | 941591W | BA04 |
| | Eldorado TC 1996- | 941591W | BA04 |
| | Seville SLS 1996- | 941591W | BA04 |
| | Seville STS 1996- | 941591W | BA04 |
| | SRX 2003- | 941591W | BA04 |
| | CTS (DOT3) 2001- | 941591W | BA04 |
| | XLR 2003- | 941591W | BA04 |
| | BLS 2005- | 941592W | BA05 |
| **CHEVROLET** | Alero 1999- | 941591W | BA04 |
| | Astro-Van 1996- | 941598W | BA12 * |
| | Blazer 1996- | 941591W | BA04 |
| | Blazer 1999- | 941591W | BA04 |
| | Camaro 1999- | 941591W | BA04 |
| | Corvette 1996- | 941591W | BA04 |
| | Hummer H2 + H3 2003- | 941591W | BA04 |
| | S10 Pick-Up 2WD + 4WD 1996- | 941591W | BA04 |
| | Surburban 1996- | 941598W | BA12 * |
| | Tahoe 1996-2002 | 941598W | BA12 * |
| | Tahoe 2003- | 941591W | BA04 |
| | Trans Sport 1999- | 941591W | BA04 |
| | Trail Blazer 2001- | 941591W | BA04 |
| **CHRYSLER** | Crossfire 2003- | 941592W | BA05 |
| | 300M 2.7 Executive 1999- | 941590W | BA03 |
| | 300C Touring + Sedan 2005- | 941588W | BA01 |
| | Neon Sport 16V 1996- | 941590W | BA03 |
| | Neon LE 1,6 2001- | 941588W | BA01 |
| | New Yorker | 941590W | BA03 |
| | PT Cruiser 2001- | 941588W | BA01 |
| | Sebring 2001- | 941590W | BA03 |
| | Stratus 1999- | 941590W | BA03 |
| | Vision | 941591W | BA04 |
| | Viper 2003- | 941588W | BA01 |
| | Grand Voyager 1999- | 941590W | BA03 |
| | Grand Voyager 2002 | 941588W | BA01 |
| | Voyager LE 1996 - | 941588W | BA01 |
| | Voyager SE 1994- | 941588W | BA01 |
| | Voyager SE 2,4 2001- | 941588W | BA01 |
| | Voyager LX 2,5 2001- | 941588W | BA01 |
| **DAEWOO** | Aveo 2005- | 941592W | BA05 |
| | Espero | 941592W | BA05 |
| | Evanda 2003- | 941591W | BA04 |
| | Kalos 2003- | 941592W | BA05 |
| | Lacetti 2003- | 941592W | BA05 |
| | Lanos | 941592W | BA05 |
| | Nexia | 941592W | BA05 |
| | Nubira 1999- | 941592W | BA05 |
| | Nubira 2001- | 941591W | BA04 |
| | Nubira WTCC R+ 2005- | 941592W | BA05 |
| **DAIHATSU** | Charmant 1989- | 941593W | BA07 |
| | Copen 2003- | 941594W | BA08 |
| | Cuore / Charade -1989 | 941593W | BA07 |
| | Cuore (L701) 1999- | 941594W | BA08 |
| | Cuore (L251) 2005- | 941594W | BA08 |
| | Move (L901) | 941593W | BA07 |
| | Gran Move (G301) | 941593W | BA07 |
| | Sirion (M100; M101) | 941593W | BA07 |
| | Sirion (100,M101,M111) 2003- | 941594W | BA08 |
| | Terios (J102) | 941596W | BA10 |
| | YRV (M201) | 941593W | BA07 |
| **FERRARI** | Alle Pkw | 941592W | BA05 |
| | 328 GTB | 941592W | BA05 |
| | 328 GTS | 941592W | BA05 |
| | F40 | 941592W | BA05 |
| | Mondial T + convertable top | 941592W | BA05 |
| | Testarossa | 941592W | BA05 |
| **FIAT** | Most | 941592W | BA05 |
| **FORD** | All older 2 tab models | 941589W | BA02 |
| | Cougar 1999- | 941592W | BA05 |
| | Courier 1995- | 941592W | BA05 |
| | Escort 1996- | 941592W | BA05 |
| | Explorer | 941590W | BA03 |
| | Fiesta 1996- | 941592W | BA05 |
| | Focus | 941592W | BA05 |
| | Fusion | 941592W | BA05 |
| | Galaxy 1995- | 941592W | BA05 |
| | Galaxy 2003- | 941592W | BA05 |
| | Maverick + Ranger 1996- | 941590W | BA03 |
| | Navigator (USA) 2001- | 941590W | BA03 |
| | Probe -1992 | 941590W | BA03 |
| | Probe 1993- | 941592W | BA05 |
| | Ranger 1999- | 941592W | BA05 |
| | Transit Van 1998- | 941592W | BA05 |
| | Windstar 1996- | 941590W | BA03 |
| **GM** | All | 941591W | BA04 |
| **HONDA** | Civic/Accord/Prelude 1976-83 | 941594W | BA08 |
| | Accord 1985-1992 | 941595W | BA09 |
| | Accord 1996- | 941595W | BA09 |
| | Accord 1999- | 941595W | BA09 |
| | Civi Shuttle | 941593W | BA07 |
| | Civic 1992- | 941594W | BA08 |
| | Civic 1996- | 941595W | BA09 |
| | Civic (EJ 9) 1999- | 941595W | BA09 |
| | CRX 1,6 | 941593W | BA07 |
| | CRX 1,6 1997- | 941595W | BA09 |
| | HR-V 1999- | 941595W | BA09 |
| | Insight 1999- | 941595W | BA09 |
| | Legend 1991- | 941595W | BA09 |
| | Logo 1999- | 941595W | BA09 |
| | NSX-T (1981- =DOT3) 1999- | 941594W | BA08 |
| | Odyssey (US-Minivan) 1999- | 941595W | BA09 |
| | Prelude 1991- | 941594W | BA08 |
| | Prelude 1992- | 941595W | BA09 |
| | Prelude 2,0 | 941593W | BA07 |
| | S 2000 1999- | 941595W | BA09 |
| | Shuttle 1997- | 941594W | BA08 |
| **HYUNDAI** | All | 941590W | BA03 |
| **ISUZU** | Frontera 1989- | 941594W | BA08 |
| | Monterey 1989- | 941594W | BA08 |
| | Rodeo 2005- | 941594W | BA08 |
| | Trooper -1989 | 941593W | BA07 |
| | Trooper 1989- | 941594W | BA08 |
| **JAGUAR** | Jaguar XJ Twin TD 2005- | 941592W | BA05 |
| | Jaguar XKR 1999- | 941592W | BA05 |
| | Jaguar XJR 1999- | 941592W | BA05 |
| | Jaguar Souvereign 4.0 | 941592W | BA05 |
| | Jaguar S-Type V8 1999- | 941590W | BA03 |
| | Jaguar S-Type R 2003- | 941592W | BA05 |
| | Jaguar X-Type 2001- | 941592W | BA05 |
| | Jaguar Daimler Super V8 | 941592W | BA05 |
| **JEEP** | Jeep Cherokee 1995 | 941590W | BA03 |
| | Jeep Cherokee 1996- | 941588W | BA01 |
| | Jeep Wrangler 1996- | 941588W | BA01 |
| | Jeep Wrangler Sport 1999- | 941588W | BA01 |

* — OPTIONAL

# Brake Bleeder Adapter Application Chart

| | | | Flo Part # | |
|---|---|---|---|---|
| **JEEP** | Jeep Wrangler | 2003- | 941588W | BA01 |
| | Jeep Grand Cherokee | 1996- | 941588W | BA01 |
| **KIA** | Carens | 1999- | 941590W | BA03 |
| | Carens | 2001- | 941592W | BA05 |
| | Carnival | 1999- | 941592W | BA05 |
| | Carnival | 2005- | 941590W | BA03 |
| | Cerato | 2005- | 941590W | BA03 |
| | Clarus | 1997- | 941592W | BA05 |
| | Joice | | 941590W | BA03 |
| | Magentis | 2001- | 941590W | BA03 |
| | Opius | 2003- | 941592W | BA05 |
| | Picanto | 2005- | 941590W | BA03 |
| | Rio | 2000- | 941593W | BA07 |
| | Rio | 2003- | 941590W | BA03 |
| | Pride | 1995- | 941593W | BA07 |
| | Sephia | 1995- | 941592W | BA05 |
| | Shuma | 2000- | 941592W | BA05 |
| | Sorento | 2003- | 941592W | BA05 |
| | Sportage | 1995- | 941592W | BA05 |
| **LAMBORGHINI** | All | | 941592W | BA05 |
| **LAND ROVER** | All | | 941592W | BA05 |
| **LEXUS** | All | | 941596W | BA10 |
| **MASERATI** | 3200 GT | 1999- | 941592W | BA05 |
| | Quattroporte | 1999- | 941592W | BA05 |
| **MAZDA** | 121 | 1995- | 941590W | BA03 |
| | 121 LX | | 941593W | BA07 |
| | 2 | 2003- | 941592W | BA05 |
| | 3 | 2003- | 941592W | BA05 |
| | 5 | 2005- | 941592W | BA05 |
| | 626 LX / GLX | | 941593W | BA07 |
| | 6 | 2003- | 941591W | BA04 |
| | B2500 PickUp 4WD | 1998- | 941592W | BA05 |
| | B-Serie 2.5L TD | 1999- | 941592W | BA05 |
| | Demio | 1998- | 941593W | BA07 |
| | Luxus / LX + Sport | | 941593W | BA07 |
| | MPV | 1999- | 941590W | BA03 |
| | MPV | 2001- | 941591W | BA04 |
| | MX-5 | 1999- | 941590W | BA03 |
| | MX-5 | 2005- | 941592W | BA05 |
| | Premacy | | 941591W | BA04 |
| | RX-8 | 2003- | 941591W | BA04 |
| | Tribute | 2001- | 941590W | BA03 |
| **MERCEDES-BENZ** | All | | 941592W | BA05 |
| **MINI** | All | | 941592W | BA05 |
| **MITSUBISHI** | All | | 941590W | BA03 |
| **NISSAN** | 100 NX | 1993- | 941590W | BA03 |
| | 200 NX | 1993- | 941593W | BA07 |
| | 200 SX | 1995- | 941590W | BA03 |
| | 200 SX - Turbo Maxima 3,0 | | 941593W | BA07 |
| | 350Z | 2003- | 941590W | BA03 |
| | Almera | 1995- | 941590W | BA03 |
| | Maxima QX | 1995- | 941590W | BA03 |
| | Pathfinder + RS1 | 2005- | 941590W | BA03 |
| | Patrol GR TD6 | 1999- | 941590W | BA03 |
| | Patrol Turbo D | | 941593W | BA07 |
| | Pick Up | | 941593W | BA07 |
| | Pick Up | 2001- | 941590W | BA03 |
| | Altima and Xterra | | 941595W | BA13 |
| **PONTIAC** | Firebird + Cabrio | | 941591W | BA04 |
| | Trans Sport | | 941591W | BA04 |
| **PORSCHE** | All | | 941592W | BA05 |
| **RENAULT** | All | | 941592W | BA05 |

| | | | Flo Part # | |
|---|---|---|---|---|
| **ROVER** | All | | 941590W | BA03 |
| **SAAB** | All | | 941590W | BA03 |
| **SUBARU** | Coupe 1800 | 1988- | 941590W | BA03 |
| | Forester | 1999- | 941590W | BA03 |
| | Forester | 2000- | 941590W | BA03 |
| | Impreza 1,8GL | | 941590W | BA03 |
| | Impreza 4WD | 1998- | 941590W | BA03 |
| | Impreza WRX | 2001- | 941590W | BA03 |
| | Justy | 2003- | 941590W | BA03 |
| | Legacy | 1995- | 941590W | BA03 |
| | Legacy +Kombi | 1999- | 941590W | BA03 |
| | Outback | 1989- | 941590W | BA03 |
| | Sedan 1800 4WD | | 941590W | BA03 |
| **SUZUKI** | Alto | 1996- | 941592W | BA05 |
| | Samurei | 1993- | 941592W | BA05 |
| | Samurei Van | 1989- | 941593W | BA07 |
| | Samurei Van + Pick Up | 1999- | 941592W | BA05 |
| | SJ Samurei + SJ 413 | 1985- | 941593W | BA07 |
| **TOYOTA** | Avensis | 1998- | 941592W | BA05 |
| | 4-Runner | 1996- | 941596W | BA10 |
| | Camry | 1993- | 941596W | BA10 |
| | Camry | | 941597W | BA11 |
| | Carina | 1993 | 941596W | BA10 |
| | Celica 4WD | | 941597W | BA11 |
| | Celica GT 2,0 / GT 1600 | | 941597W | BA11 |
| | Celica GT 2,0 / GT 1600 | 2001- | 941596W | BA10 |
| | Celica CS | 2003- | 941596W | BA10 |
| | Corolla | | 941597W | BA11 |
| | Corolla E11 | | 941596W | BA10 |
| | Corolla | 1993- | 941596W | BA10 |
| | Corolla | 1996- | 941597W | BA11 |
| | Corolla Combi | 1972-1986 | 941597W | BA11 |
| | Corolla | 2003- | 941592W | BA05 |
| | Cressida | 1977-1981 | 941592W | BA05 |
| | Crown | 1985- | 941593W | BA07 |
| | Landcruiser | | 941593W | BA07 |
| | Landcruiser HJ100 | | 941596W | BA10 |
| | Landcruiser | 2003- | 941596W | BA10 |
| | MR-2 | 2003- | 941596W | BA10 |
| | Previa | | 941596W | BA10 |
| | Prius | 2001- | 941596W | BA10 |
| | RAV 4 | 1996- | 941596W | BA10 |
| | EAV-4 | 2003- | 941596W | BA10 |
| | Starlet | | 941597W | BA11 |
| | Tercel | | 941597W | BA11 |
| **VOLVO** | All | | 941592W | BA05 |
| **VOLKSWAGEN** | All | | 941592W | BA05 |
| | Beetle | 1998-2002 | 941592W | BA05 |
| | Beetle | 2003- | 941592W | BA05 |
| | Caddy | 2005- | 941592W | BA05 |
| | EOS | 2005- | 941592W | BA05 |
| | Multivan | 2003- | 941592W | BA05 |
| | 1500 Typ 1 | | 941593W | BA07 |
| | 1500 / 1600 Typ 3 | | 941593W | BA07 |
| | 411 / 412 Typ 2 (28 Durchm.) | 1988- | 941593W | BA07 |
| | LT 28 | | 941593W | BA07 |
| | Lupo | | 941593W | BA07 |
| | Sharan | -2002 | 941592W | BA05 |
| | Sharan | 2003- | 941592W | BA05 |
| | T4 | 1994- | 941592W | BA05 |
| | NOTE: New for Older GM and Chrysler | | 941599W | BA14 |

# REPLACEMENT PARTS LIST

| Part # | Description |
|---|---|
| | |
| **941587W** | Control Panel w/ Electronic Board & Label |
| **941504W** | Complete Manifold Assembly |
| **941556** | Sight Glass Tube |
| **941502** | Pressure Side Pump |
| **941503** | Waste Tank Drain Pump |
| **941545** | Vacuum Side Pump |
| **R941251** | Level Switch |
| **941506** | Pressure Switch |
| **941547W** | Battery Cable Assembly |
| | |
| | |
| **941416** | Master Cylinder Adapter Kit |
| **941510** | Service Hose w/ Ball Valve |
| **941512** | Yellow Tygon Line |
| **941535** | 1/8" Hose Barb for Tygon Lines |
| **941500** | Bleeder Nipple Adapter |
| **941533** | Quick Disconnect Fitting for Bleeder Nipple Adapter |
| **941509** | Internal Hose Kit |
| **941540** | Yellow Service Hose |
| **941288** | Wand Adapter (Waste Fluid) |
| **941524** | Wand Adapter (New Fluid) |
| | |
| | |
| **R940750** | Chassis |
| **R940751** | Console |
| **942113** | Tank Cap |
| **941520** | New Fluid Tank (White) |
| **941252** | Used Fluid Tank (Red) |
| **941508** | Service Panel Label |
| **P941530** | Shepherd's Hook |
| **941261** | Vinyl Mat |
| | |
| **R942118** | Locking Caster Wheel |
| **R942137** | Caster Wheel |
| | |
| **941522** | Operations Manual |
| **941523-O** | Quick Start Instruction Sheet |

| | | |
|---|---|---|
| **941502** *Pressure Side Pump* | **941503** *Waste Tank Drain Pump* | **941545** *Vacuum Side Pump* |
| **R941251** *Level Switch* | **941506** *Pressure Switch* | **941504W** *Complete Manifold Assembly* |
| **P941530** *Shepherd's Hook* | **941500** *Bleeder Nipple Adapter* | **941261** *Vinyl Mat* |

To order replacement parts for the BrakeMate, call:

**1-800-303-5874**

# MAINTENANCE

***To keep your machine working properly…***

- **Keep debris out of new fluid.**
- **Avoid spilling fluid on the control panel.**
- **Periodically wipe down exterior using a soft, damp cloth.**

## CUSTOMER SERVICE CONTACT INFORMATION

If you are experiencing problems with this machine,
call technical support at:

**1-800-303-5874**

# LIMITED ONE (1) YEAR WARRANTY

Flo-Dynamics warrants only to the original Purchaser that under normal use, care and service, the Equipment (except as otherwise provided herein) shall be free from defects in material and workmanship for one year from the date of original invoice. External hoses, remote control modules, adapters and all other attachments, supplies and consumables (except as otherwise provided herein) are warranted for 90 calendar days from the date of original invoice. Filter elements are not warranted. Printed circuit boards purchased from, but not installed by Seller are not warranted.

**SELLER'S OBLIGATIONS UNDER THIS WARRANTY ARE LIMITED SOLELY TO THE REPAIR OR, AT SELLER'S OPTION, REPLACEMENT OF EQUIPMENT OR PARTS WHICH TO SELLER'S SATISFACTION ARE DETERMINED TO BE DEFECTIVE AND WHICH ARE NECESSARY, IN SELLER'S JUDGEMENT, TO RETURN THE EQUIPMENT TO GOOD OPERATING CONDITION. NO OTHER WARRANTIES EXPRESS OR IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, SHALL APPLY AND ALL SUCH WARRANTIES ARE HEREBY EXPRESSLY DISCLAIMED.**

This warranty does not cover (and separate charges for parts, labor and related expenses shall apply to) any damage to, malfunctioning, inoperability or improper operation of the Equipment caused by, resulting from or attributable to (A) abuse, misuse or tampering; (B) alteration, modification or adjustment of the Equipment by anyone other than Seller's authorized representatives; (D) improper or negligent use, application, operation, care, cleaning, storage or handling; (E) fire, water, wind, lightning or other natural causes; (F) adverse environmental conditions, including, without limitation, excessive heat, moisture, corrosive elements, or dust or other air contaminants, radio frequency interference, electric power failure, power line voltages beyond those specified for the equipment, unusual physical, electrical or electromagnetic stress, and/or any other condition outside of Seller's environmental specifications; (G) use of the Equipment in combination or connection with other equipment, attachments, supplies or consumables not manufactured or supplied by Seller; or (H) failure to comply with any applicable federal, state or local regulation.

Repairs or replacements qualifying under this Warranty will be performed on regular business days during Seller's normal working hours within a reasonable time following Purchaser's request. **All requests for Warranty service must be made during the stated Warranty period.** This warranty is non-transferable.

# Notes